

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **1** of **2****Complete if Known**

Application Number	10/627,355
Filing Date	July 24, 2003
First Named Inventor	Rodolfo R. Llinas
Art Unit	N/A 2129
Examiner Name	Not Yet Assigned Peter Coughlan
Attorney Docket Number	05986/100K520-US1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PC ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	1	Elena Leznik, et al.; "Electrotonically Mediated Oscillatory Patterns in Neuronal Ensembles: An In Vitro Voltage-Dependent Dye-Imaging Study in the Inferior Olive"; The Journal of Neuroscience, April 1, 2002, 22(7), pages 2804-2815	
	2	Manuel G. Velarde, et al.; "Modeling inferior olive neuron dynamics"; Neural Networks 15, (2002), 5-10.	
	3	R.R. Llinas; "The Noncontinuous Nature of Movement Execution"; Motor Control: Concepts and Issues, edited by D.R. Humphrey and H.-J. Freund; (Wiley, New York), pages 223-242	
	4	Eric J. Lang, et al.; "Patterns of Spontaneous Purkinje Cell Complex Spike Activity in the Awake Rat"; The Journal of Neuroscience, April 1, 1999, 19(7), pages 2728-2739.	
	5	Vladimir Makarenko, et al.; "Experimentally determined chaotic phase synchronization in a neuronal system"; Proc. Natl. Acad. Sci. USA, vol. 95, pages 15747-15742.	
	6	John P. Welsch, et al.; "Some organizing principles for the control of movement based on olivocerebellar physiology"; Progress in Brain Research, vol. 114, pages 449-461.	
	7	Vladimir I. Makarenko, et al.; "A New Approach to the Analysis of Multidimensional Neuronal Activity: Markov Random Fields"; Neural Networks, Vol. 10, No. 5, pages 785-789.	
	8	E.J. Lang, et al.; "GABAergic Modulation of Complex Spike Activity by the Cerebellar Nucleoolivary Pathway in Rat"; Journal of Neurophysiology, Vol. 76, No. 1, July 1996, pages 255-275.	
	9	John P. Welsh, et al.; "Dynamic organization of motor control within the olivocerebellar system"; Nature, Vol. 374, March 30, 1995, pages 453-457.	
	10	I. Sugihara, et al.; "Uniform Olivocerebellar Conduction Time Underlies Purkinje Cell Complex Spike Synchronicity in the Rat Cerebellum"; Journal of Physiology (1993), 470, pages 243-271.	
	11	K. Sasaki, et al.; "Multiple Purkinje Cell Recording In Rodent Cerebellar Cortex"; European Journal of Neuroscience, Vol. 1, pages 572-586.	
	12	R. Llinas, et al.; "The Functional Organization of the Olivo-Cerebellar System as Examined by Multiple Purkinje Cell Recordings"; European Journal of Neuroscience, Vol. 1, pages 587-602.	
	13	R. Llinas; "The Intrinsic Electrophysiological Properties of Mammalian Neurons: Insights into	

Examiner Signature	/Peter Coughlan/	Date Considered	12/01/2006
-----------------------	------------------	--------------------	------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/627,355		
		Filing Date	July 24, 2003		
		First Named Inventor	Rodolfo R. Llinas		
		Art Unit	2129 2129		
		Examiner Name	Not Yet Assigned Peter Coughlan		
Sheet	2	of	2	Attorney Docket Number	05986/100K520-US1

		Central Nervous System Function"; Science, Vol. 242, pages 1654-1664 (1998).	
PC	14	R. Llinas, et al.; "Oscillatory Properties of Guinea-Pig Inferior Olivary Neurones and Their Pharmacological Modulation: An In Vitro Study"; Journal of Physiology (London), 376, pages 163-182.	
	15	R. Llinas, et al.; "Electrophysiology of Mammalian Inferior Olivary Neurones In Vitro. Different Types of Voltage-Dependent Ionic Conductances"; Journal of Physiology (London), 315, pages 549-567.	
	16	R. Llinas, et al.; "Electronic Coupling Between Neurons in Cat Inferior Olive"; Journal of Neurophysiology, Vol. XXXVII, No. 3, 1974, pages 560-571.	
	17	C. Sotelo, et al.; "Structural Study of Inferior Olivary Nucleus of the Cat: Morphological Correlates of Electronic Coupling"; Journal of Neurophysiology, Vol. XXXVII, No. 3, 1974, pages 541-559.	
	18	J.C. Eccles, et al.; "The Excitatory Synaptic Action of Climbing Fibres on the Purkinje Cells of the Cerebellum"; Journal of Physiology, (London), 182, pages 268-296.	
V	19	R. Llinas, et al.; "Depolarization-Release Coupling Systems in Neurons"; Neurosciences Research Program Bulletin, Vol. 15, No. 4, pages 555-687.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Peter Coughlan/	Date Considered	12/01/2006
--------------------	------------------	-----------------	------------



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/627,355		
		Filing Date	July 24, 2003		
		First Named Inventor	Rodolfo R. Llinas		
		Art Unit	3700 2129		
		Examiner Name	Not Yet Assigned Peter Coughlan		
Sheet	1	of	1	Attorney Docket Number	05986/100K520-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
PC	CA	Y. Han, et al.; "A Neural Cell Model of MSO"; IEEE 1991 Proc. 17th annual Bioengineering conf.; April 1991; pp. 121-122.		
PC	CB	W. Maass, et al.; "On the Complexity of Learning for A Spiking Neuron"; ACM 10th annual conf. Computational Learning Theory; 1997; pp. 54-61.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Peter Coughlan/	Date Considered	12/01/2006
-----------------------	------------------	--------------------	------------